S3(Simple Storage Service)

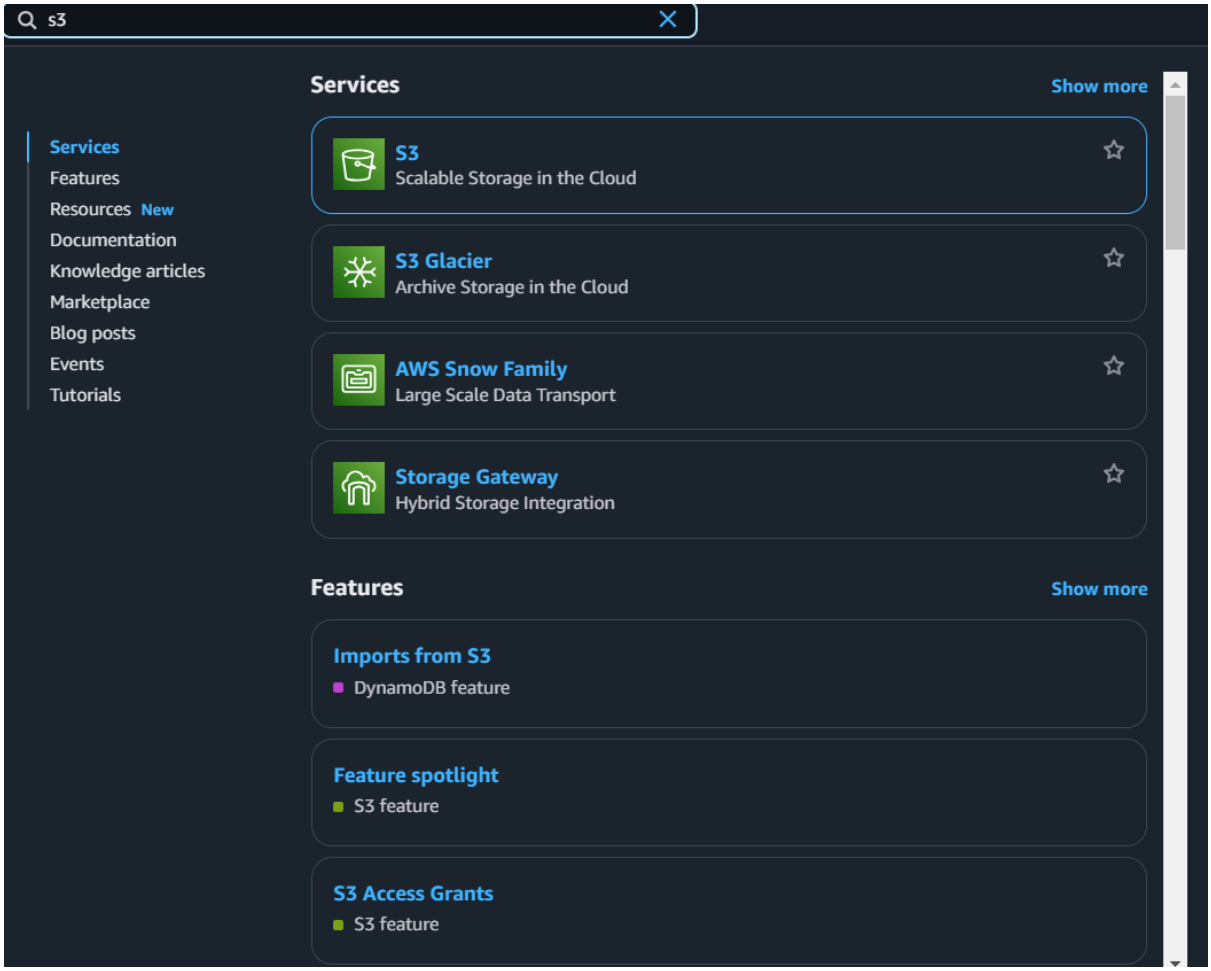
Amazon S3 (Simple Storage Service) is a scalable object storage service offered by AWS (Amazon Web Services). It is designed to store and retrieve large amounts of data, ranging from a few kilobytes to petabytes. S3 is commonly used for backup, data archiving, content distribution, and hosting static websites.

Key Features of Amazon S3:

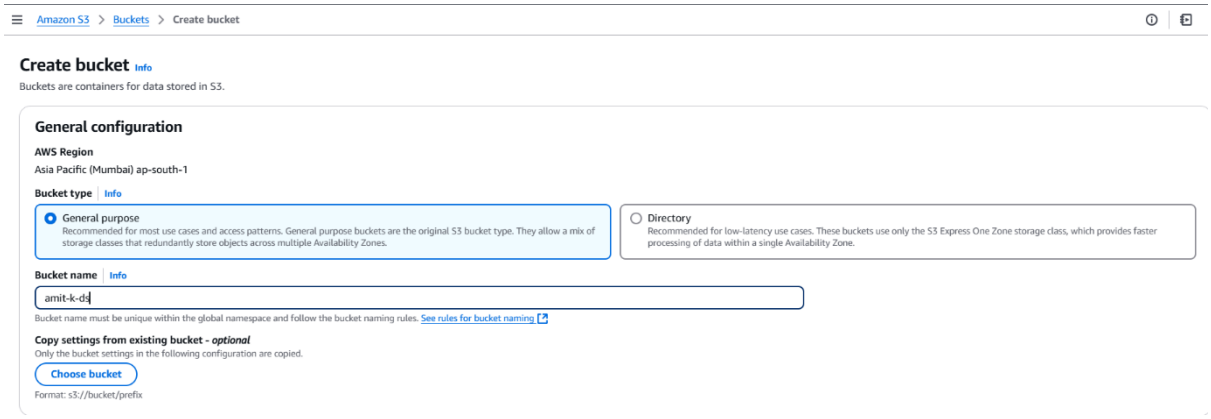
1. **Durability and Availability**: Provides high durability (99.999999999% or 11 9's) and availability for stored objects.
2. **Scalability**: Automatically scales to handle growing data and requests.
3. **Cost-Effectiveness**: Pay-as-you-go pricing model, with tiered storage options.
4. **Data Security**: Supports encryption (server-side and client-side) and fine-grained access control via IAM policies and bucket policies.
5. **Integration**: Easily integrates with other AWS services like EC2, Lambda, Athena, and Redshift.

- **Here, are visual steps :**

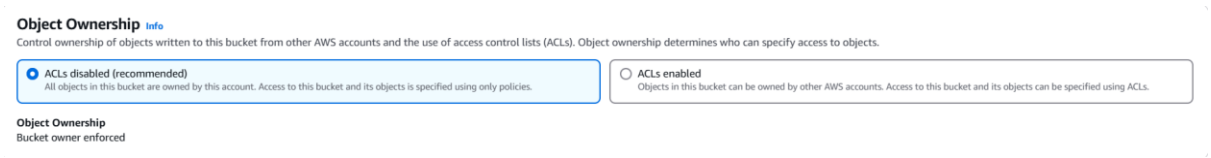
Steps 1:



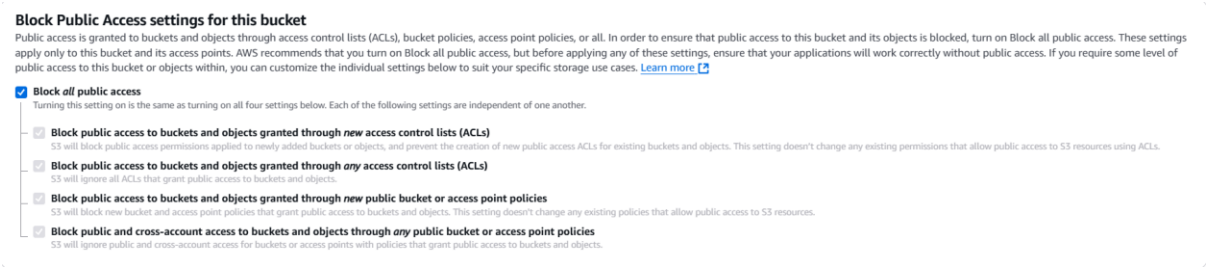
Step 2:



Step 3:

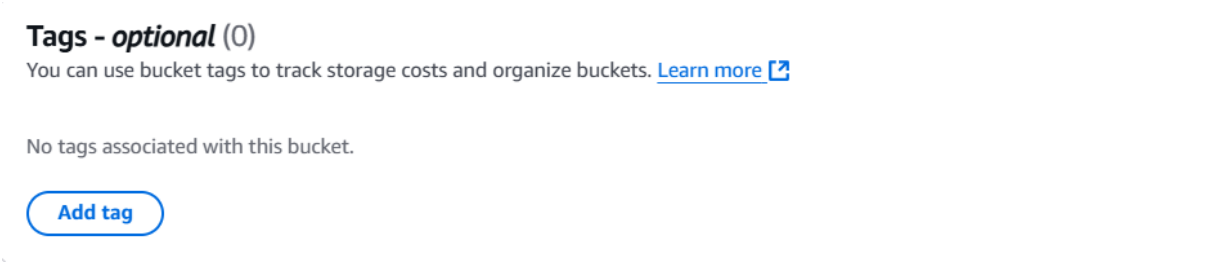


step 4:

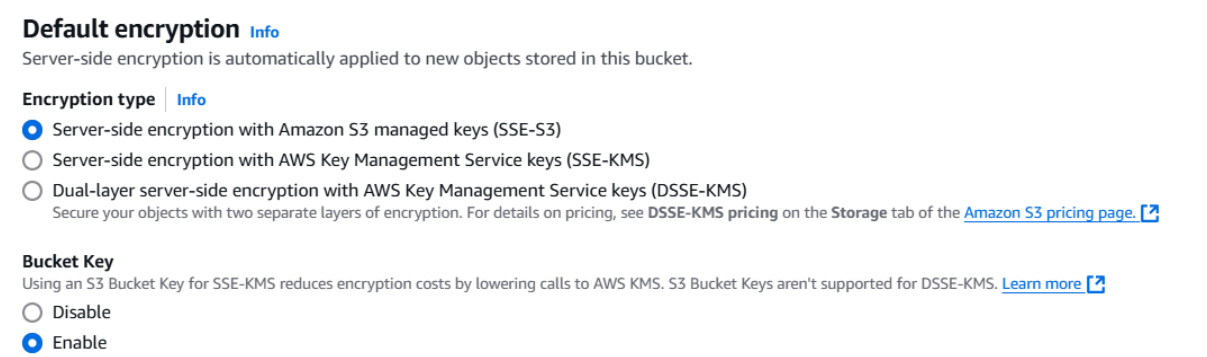


Step 5:

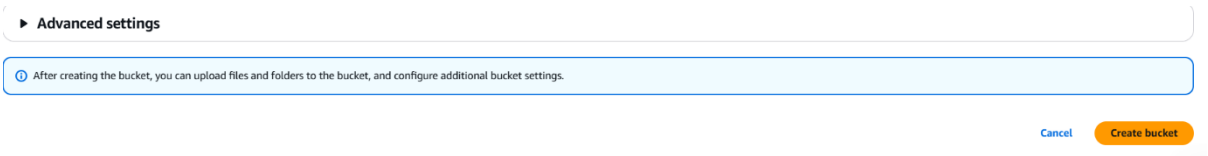
step 6:



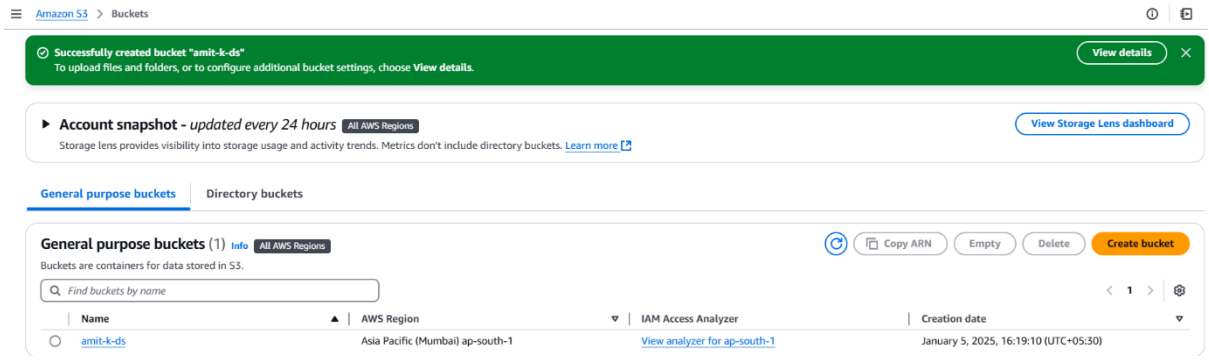
Step 7:



Step 8:

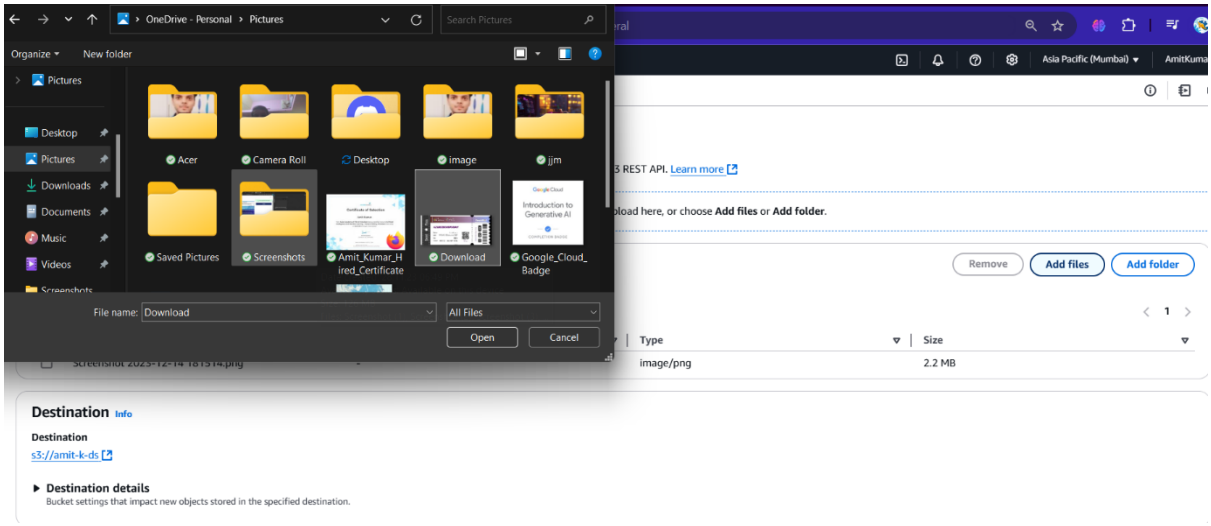


Step 9:

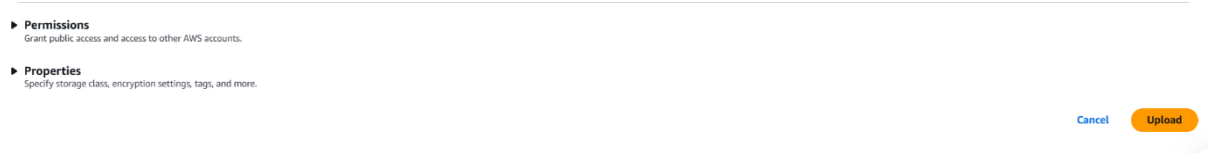


now I'm storing data in the bucket.

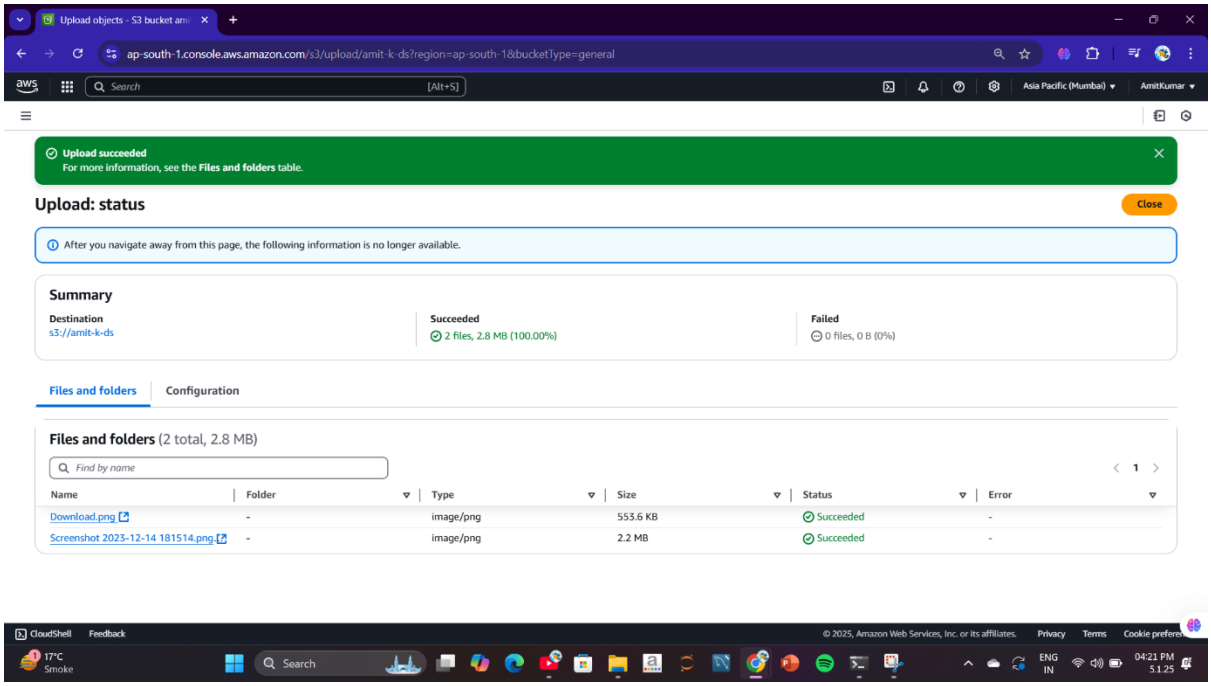
Step 10:



Step 11:

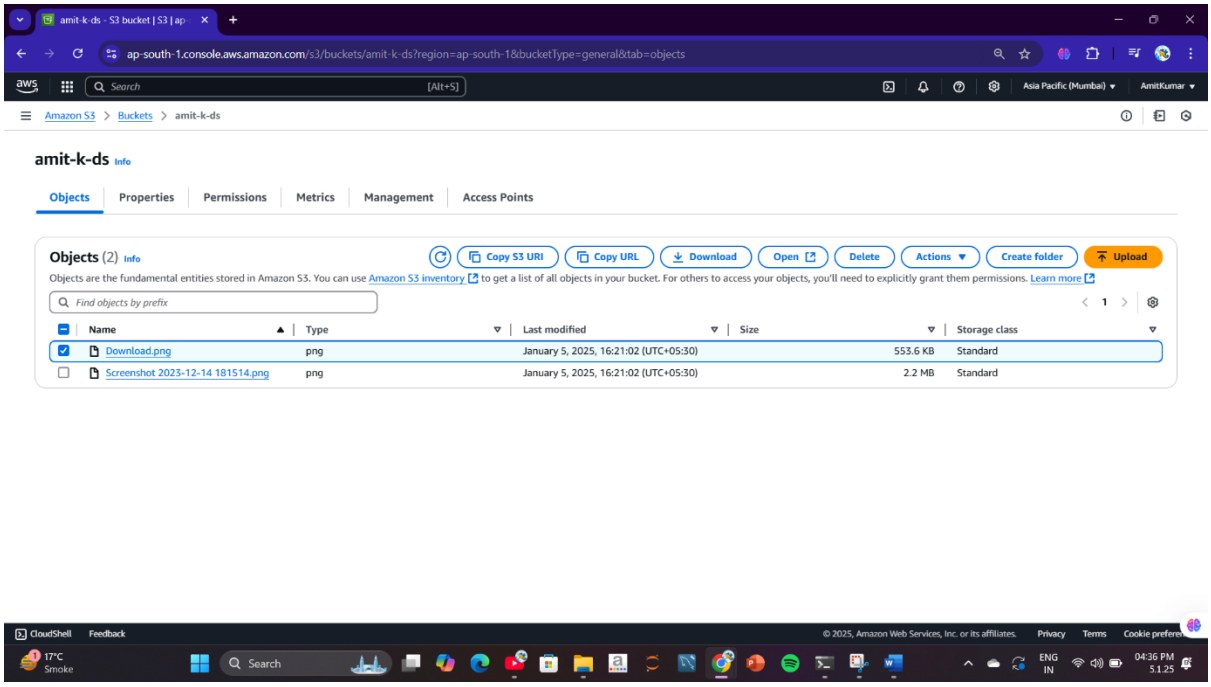


Step 12:

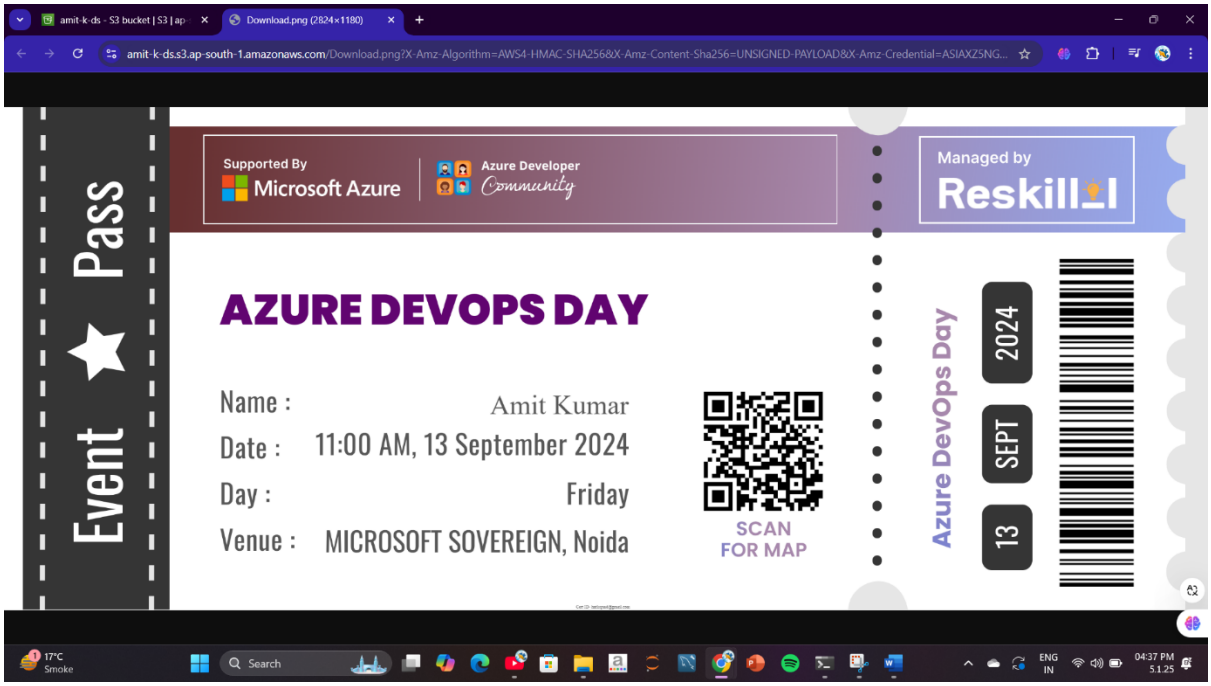


So, I've uploaded the image. You can access the image firstly you will the select the image and then click "Open" Button.

Step 13:

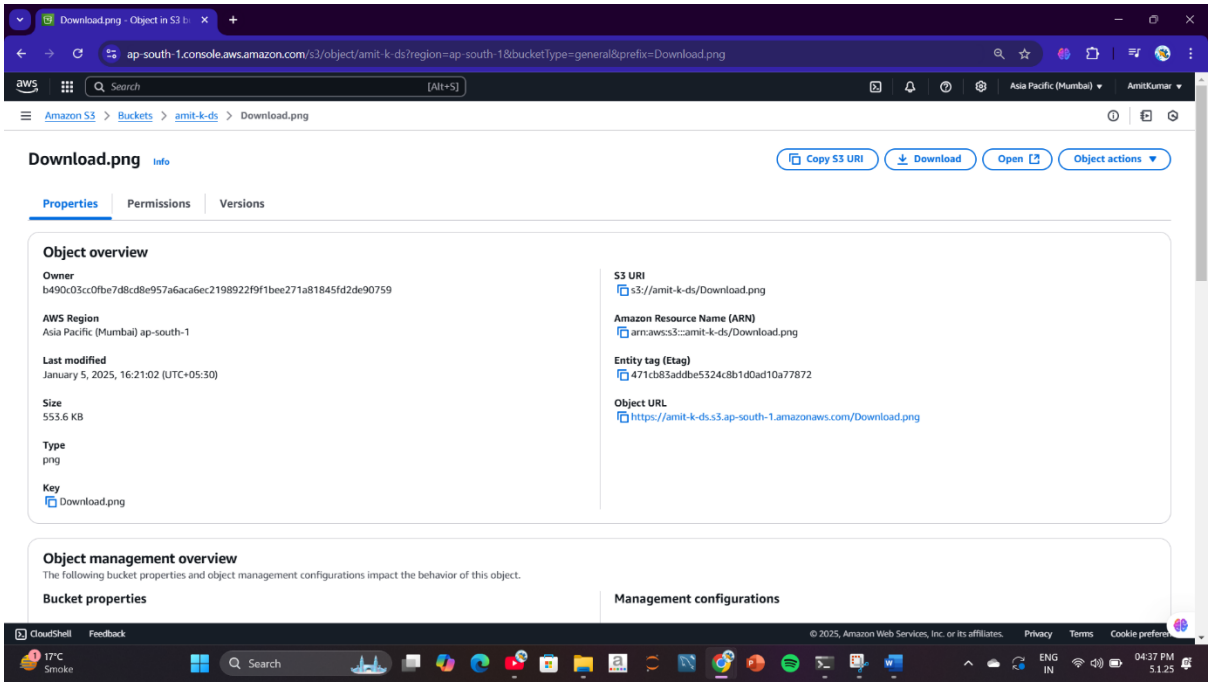


Step 14:

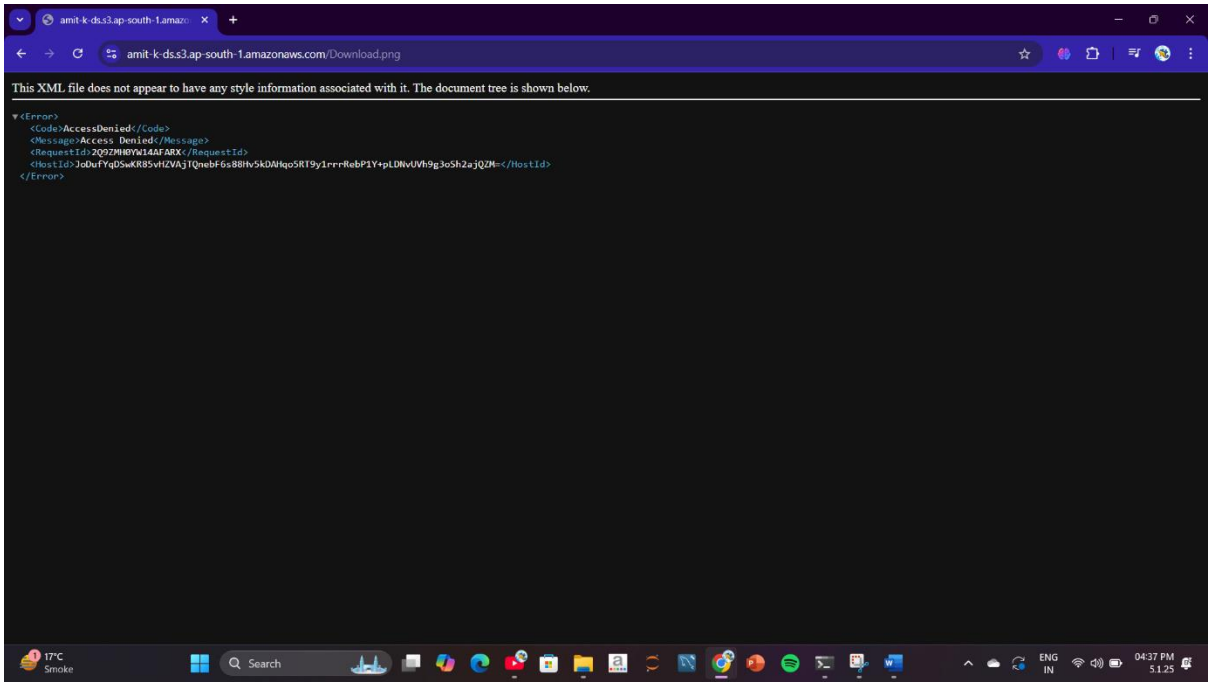


Step 15:

if you click the object, So this page will open. Now I want to access the object by “Object URL” if you click Object URL It will give an error.

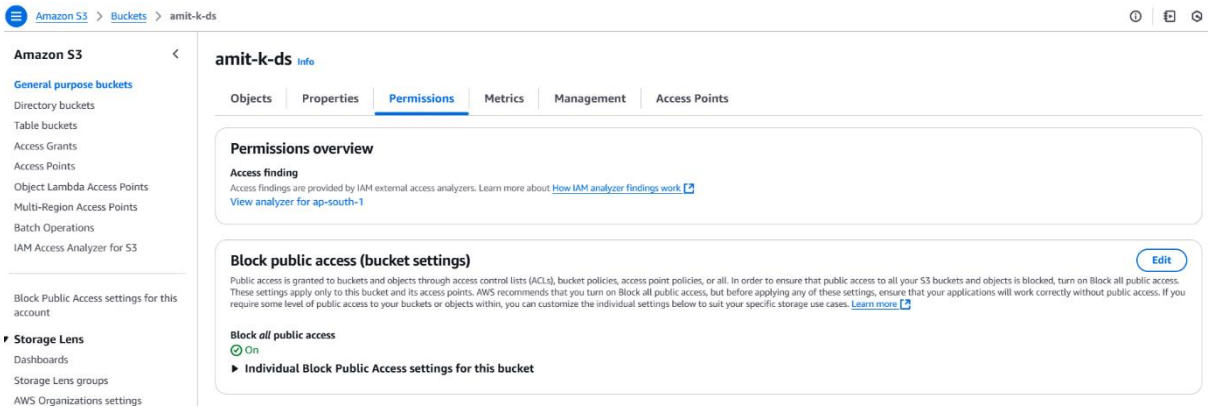


Step 16:



here, are some steps you can handle it. this kind of problem.

Step 17:



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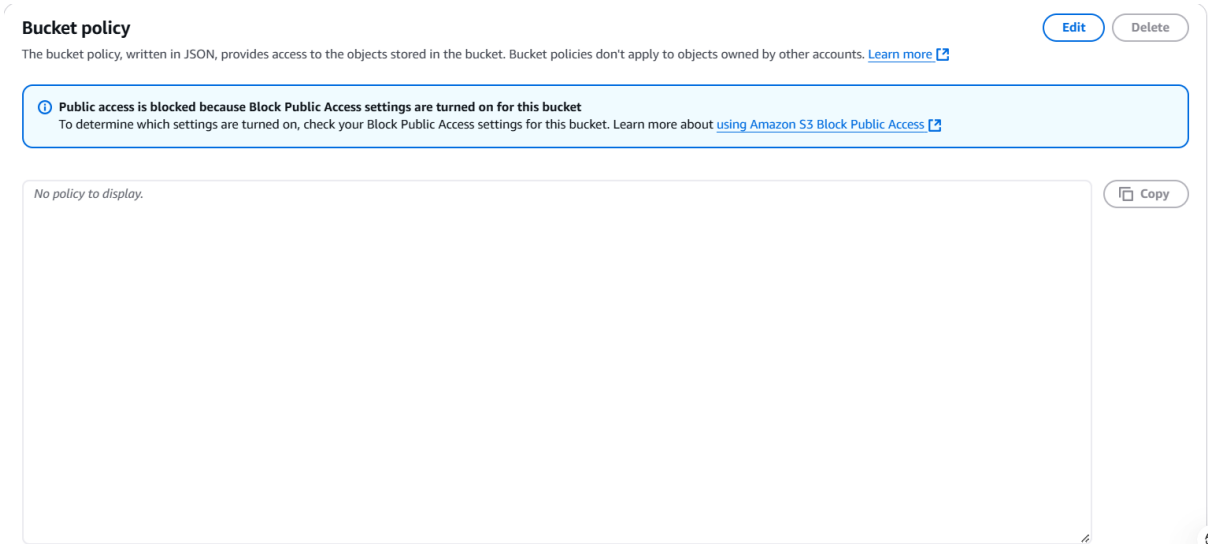
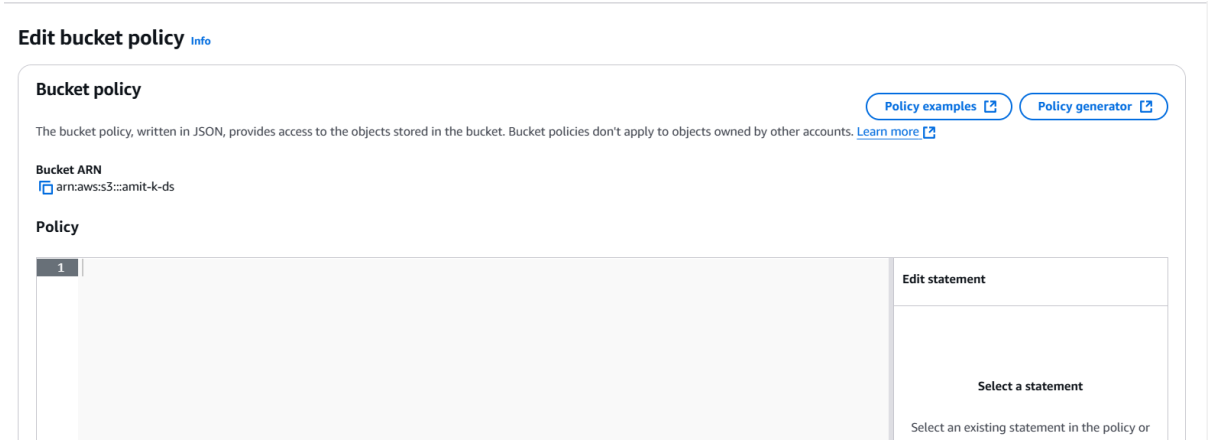


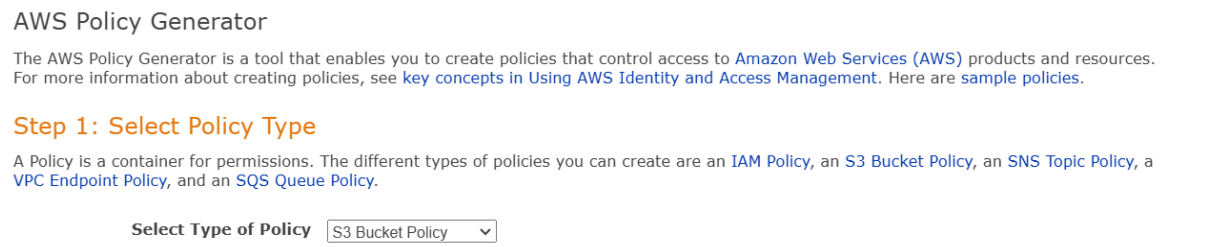
Step 19:

I'll edit the bucket policy.



Step 20:

You have to create Bucket Policy.



Step 21:

Step 2: Add Statement(s)

A statement is the formal description of a single permission. See a description of elements that you can use in statements.

Effect ◉ Allow ○ Deny

Principal

Use a comma to separate multiple values.

AWS Service Amazon S3 ☐ All Services ('*')

Use multiple statements to add permissions for more than one service.

Actions -- Select Actions -- ☐ All Actions ('*')

Amazon Resource Name (ARN)

ARN should follow the following format: arn:aws:s3:::${BucketName}/${KeyName}.
Use a comma to separate multiple values.

Step 21:

Principal(s)	Effect	Action	Resource	Conditions
• *	Allow	• s3:GetObject	arn:aws:s3:::amit-k-ds	*None*

Step 3: Generate Policy

A *policy* is a document (written in the Access Policy Language) that acts as a container for one or more statements.

Generate Policy Start Over

Step 22:

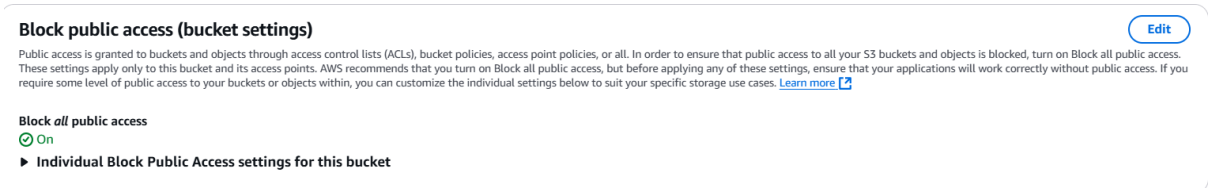
Policy JSON Document

Click below to edit. To save the policy, copy the text below to a text editor.
Changes made below will **not be reflected in the policy generator tool.**

```
{
  "Id": "Policy1736075509029",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1736075440621",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::amit-k-ds",
      "Principal": "*"
    }
  ]
}
```

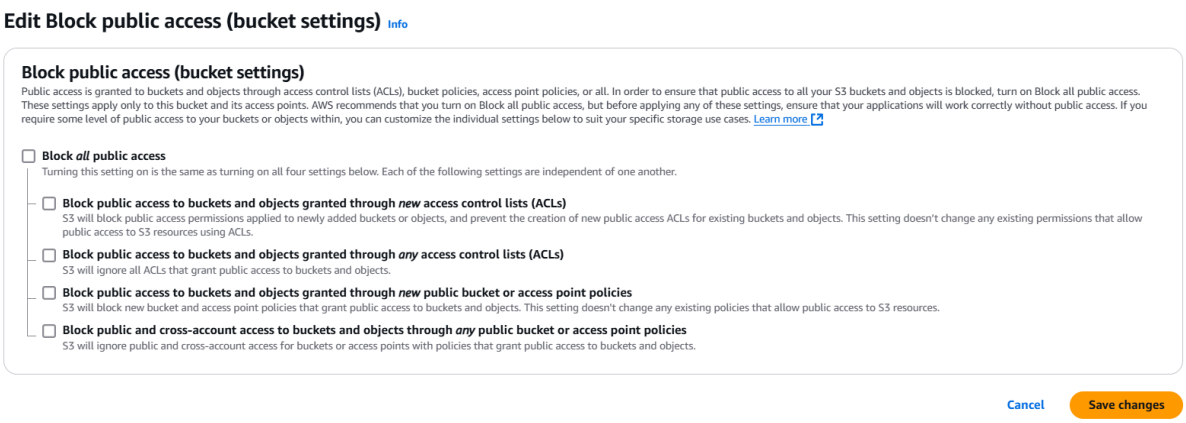

Close

Step 23:

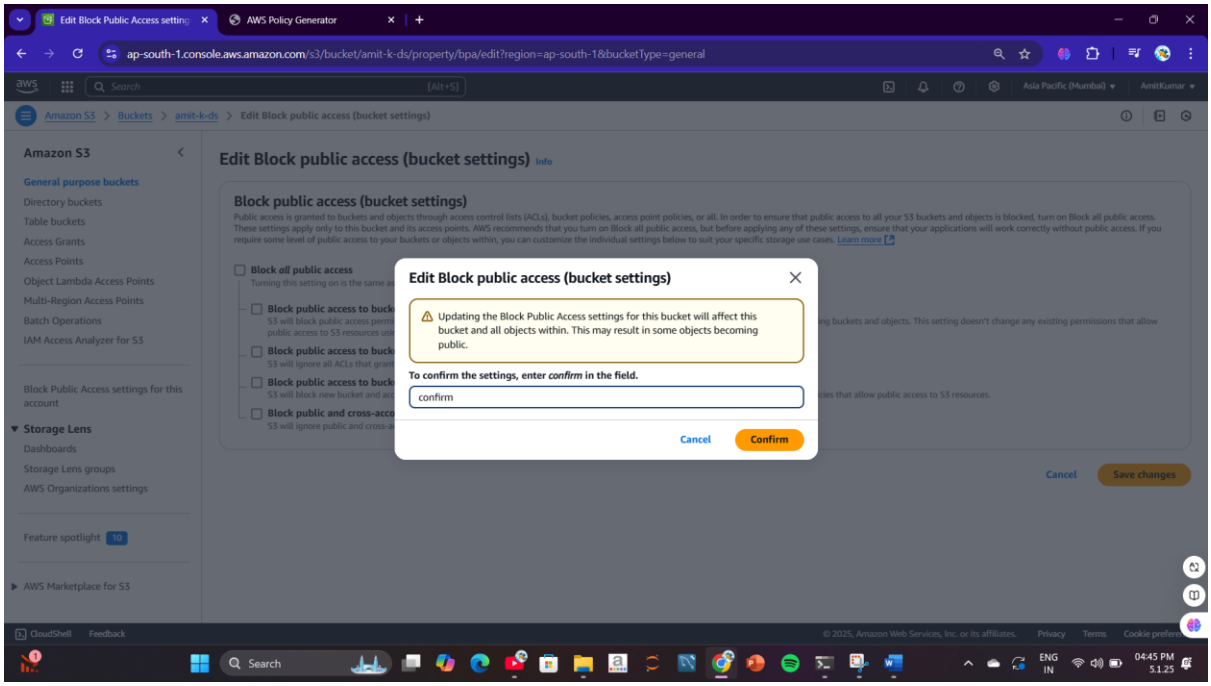


Step 24:

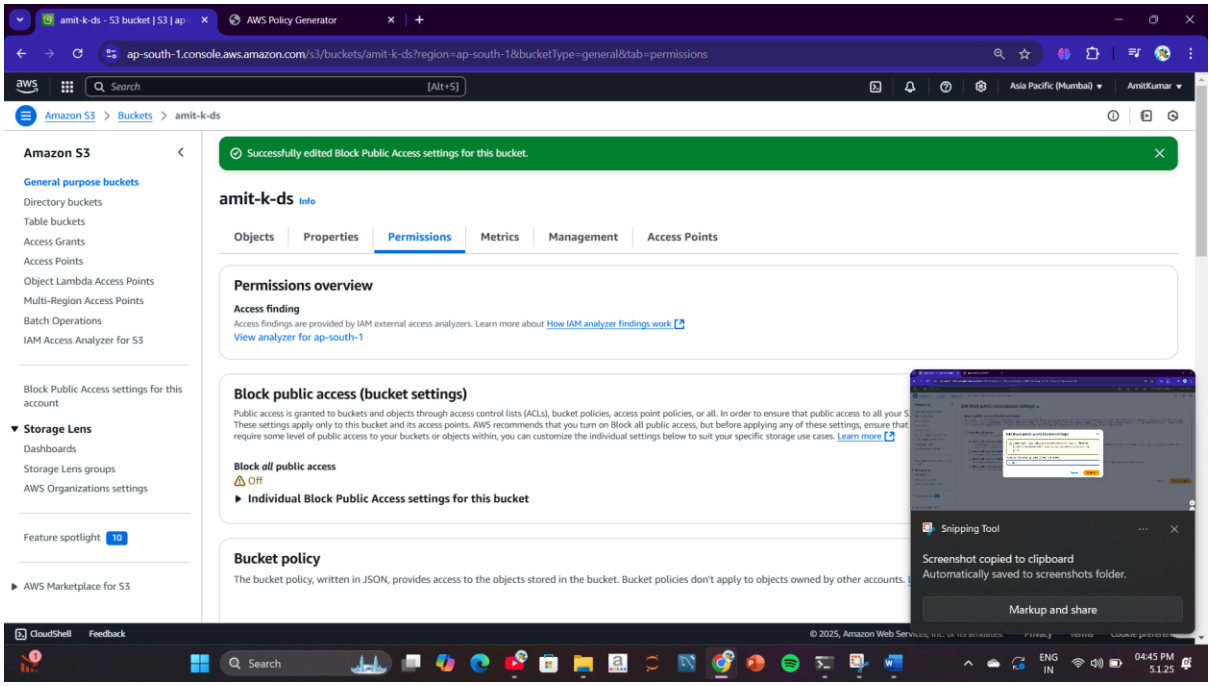
I have to untick “Block Public Access”



Step 25:



Step 26:



Step 27:

This is the object.